potory of India Rubber in the United

The proposed, some time ago, to give a brief histy of the various discoveries and improvements made in the United States, in the India rober art, and mark the periods when they took face, to show the rise and progress of this now valuable and extensive manufacture. Our investigations have been carefully made, and honor will be accorded where it is due. It is indispensable to a correct understanding of the subject, to glance at the early discoveries of the substance of India rubber itself, clearly to define the honor due to American discoveries, and indicate all new inventions.

The introduction of India rubber from South America into Europe, was almost contemporaneous with its discovery by a French naturalist, about the middle of the last century; but we have no account of its application, to any extent, in the arts, until about 1820, when efforts were made to introduce the milk of the tree, and to apply it to cloths and other fabrics, for the purpose of rendering them water-proof. These experiments were, however, unsuccessful. When the substance was first introduced into Europe, it was of the natural color, as concreted from the juice of the tree; and this color was a light drab. As early as 1820, the Brazilian Indians discovered a mode of curing rubber, and adapting it to use in the form of shoes. This curing process was, and still is, very simple. It consists in combining a small portion of carbon and vegetable oil. The Indian first obtains an earthen vessel, rudely formed of clay, in the shape of a sugar-loaf, with a small aperture at the top; this is supported, with the base resting on projections of sione, raising it from the ground sufficiently to allow the air to pass to the fire, which is built of bark, or leaves and wood. A peculiar nut, from a tree of the same forest, and which yields an oil, is always used to increase the smoke, and which, in the process of burning, gives out the oil. The operation commences by pouring the juice of the rubber tree on to the last, or block on which the shoe is made.

sively; and when completed, the shoe is suspended in the shade to harden, and thus prepared for shipment.

Although the India rubber tree is found in Asia, Africa, and the Indian Archipelagoes, (in great quantities near the equator,) no manufacture or application of it to useful purposes has ever been attempted to any considerable extent except, by the Brazilian Indians, in whose country the art of curing it is practised as we have described. The quality of the India rubber deteriorates in proportion as the distance from the equator increases hence the article obtained from Carthagena, small lots of which have been imported into the United States during the last ten years, has always sold at a lower price than the rubber of Para. Many efforts have been made to import the milk itself, but without success. Mr. Norris, now our Consul at Para, was sent out there about ten years ago for this purpose, by a gentleman of this city, and to intreduce the art of preparing the milk, and of applying it, as concreted, to the cloth by the aid of machinery. He expended a good deal of money in these experiments, but they were without success. With a temperature of one hundred degrees in the shade, northern men cannot work; the native Indians can supply their wants for a penny a day.

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men cannot work; the native Indians can supply their wants for a penny a day.

In 1823, Charles Macintosh, of Manchester, England, perfected his famous discovery of rendering a cloth water proof, which afterwards bore his name. This was partially accomplished by dissolving the rubber, and applying the colution, first with a brush, and afterwards by spreading it on with a knife. Two surfaces thus prepared were united, and by this means. Macintosh and his associates monopolized all the manufactures prepared in this wify, and accumulated a large fortune.

From this time till about 1830, few improvements were made in England, or on the Continent. Only lour or five patents were taken out, and they were for inventions of no material importance. From 1830 to 1838, the number of patents issued in England for the manufacture or application of india rubber, was thrity; some of which were invented in this country, and became monopolies to enterprising speculators who were the first to introduce them into the British doralnions.

The British government bases its law of patents on a wise national pelicy, granting monopolies to the first who introduces a new art or discovery into the British dominions, whether they are the lawe dors or not, while our own laws grant patents only to the original inventor or his assignee. Justice is in this way—in form, at least, if not in fact—secured to individuals, but no regard its had to the manu acturing interest of the country.

From 1839 till the present time, some forty paents have been granted in England, for India rubber manufactures, or for machinery, more than half of which have been for American discoveries chiefly monopolized by mere introducers of them, under the laws of Great Britain. Nearly three times as many India rubber patents have been is sued in England, with the execution of braces and other textule fabrics, in which England as in the United States, and yet we believe that our manufactures in this article have greatly exceeded those in England, with the execution of bra est the entire control. One of the most important manufactures of rubber

among us, is what is called the rubber clothes, since from these are made almost all articles of clothing, &c. This manufacture was successfully accomplished in the United States, during the years 1827, 28, and 29, when the idea of combining other substances, such as carbon, paints, echre other substances, such as carbon, paints, echre and other earthy materials with the rubber, and applied to surfaces of cloth, rendering it capable of resisting, to a great extent, the decomposing influences of the sun and atmosphere. The English mode of treating rubber did not enable the manufacturer to accomplish this result. It was unknown in Europe, and the idea of preparing the rubber itself to form one surface of the fabric, was entirely new.

The first and principal object the enterprising The first and principal object the enterprising projector sought to accomplish, was to imitate, in his fabric, the appearance of leather. One of the means of effecting this, was by incorporating paints in dry powder, and carbon in the form of powder with the rubber.

The great success of this discovery may be regarded as the most important ever made in this branch of meanufacture; and probably not fifty persons in the United States know that Dr. Howe ever turned has steenings to the subject at all much least

branch of manufacture; and probably not fifty persons in the United States know that Dr. Howe ever sons in the United States know that Dr. Howe ever turned his attention to the subject at all, much less that he was the author. The burning of the patent office in 1855, destroyed the public record of the lact; but the original parchament of the patent issued to him, still remains; and the distinguished author himself, now resides in Birmingham, Cona. The title of his patent is in these words:—"That he has invented a new and useful improvement, being a composition of mailer to be used as a flexible waterproef, and airproof solution, paint or vernish." The author first describes a portion of his discovery, as combaning with rubber one or more of the resine, prepared after a mode discovered by him, and proceeds to say:—"This composition may be used with or without any addition or combination with the various budies known and used as colors or partial budies known and agree also as a treatment to resist the softening and descriptions of effect of the rays of the sun. The author proceeds to any—"When this is properly applied upon the surface of cloth, paper, leather, or other healther of portun body, and the oil (unpeating) allowed to evaporate, it forms upon such a surface a strong, amount, flexible, and elastic absect or costing, which will effectually exclude water and air, and retain its useful properties under any circumstance of exposure to the real or weather."

Dr. Howe closes his patent specifications is these words:—"Colors or partial may be combined with the said composition (rubber and resis, softened

Dr. Howe closes his patent specifications in these words:—"Colors or panets may be combined with the said composition (rabber and reas, softened with the oil of turpentine.) by any of the methods commonly used in mixing and preparing oil panets."

Late most chemical processes, slight differences produce in portant changes in the manufacture of india rubber; and now, after more than twenty years have passed, we see the most beautiful article of rubber shoes made by combining lamphlack and rubber with earthy matter and a small quantity of resin.

quantity of resin.

This discovery of Dr. Howe, with slight modifi-cations, is still in use in this country and in England, in almost all the india rubber fabrics

England, in almost all the india rubber fabrics which are made.

The next discovery in treating India rubber, which merits notice, is that of combining with that of Dr. How somposition the article of sulphur. This discovery, which is of immense importance, was also made by an American, by the name of Nathaniel Hayward, in Boston, in the month of October, 1834. The mixing of sulphur with India rubber was almost entirely confined, for some time, to one establishment, viz the corporation known as the Eagle India Rubber Company, at Woburn, Mass, and they kept the process is part secret for about five years; and yet this company did not apply it extensively, for, although it was organized to develope Mr. Hayward sinventions, after a few years they sold out, Mr. Hayward continuing the business.

The chief benefit resulting from the invention was to improve the drying of the composition, and

was to improve the drying of the composition, and there was a serious objection in the use of sulphur, since it imparted a strong smell to the goods so prepared; and we speak of it as one of great importance, chiefly because of the connection it had with subsequent improvements by the same dis-

coverer.

It was about the year 1838, we believe, that canother gentleman took out his first patent for treating India rubber. The object of this invention was to remove the agglutinous, or "sticky proper

ties," (to use the words of the patent,) and consisted in the immersion of the fabrics in acids. Under this process; if the textile fabrics were not entirely covered with rubber, they would be partially destroyed; hence much difficulty attended the treatment, and but few articles could be successfully produced, so that this invention was abandoned for all general purposes.

About 1836, a gentleman now connected with the Erie Railroad Company, with Col. Barrett, of Staten Island, formed a company, which was chartered by the State of New York, and located on Staten Island. This company so far improved on Dr. Howe's method, as to produce rubber shoes of a composition which presented the appearance of fine kid. This was accomplished by incorporating about 80 per cent, by weight, of calciated lampblack with the rubber. Up to this period, the process most generally used was to mix a smaller quantity of impollack, which generally had the effect of decomposing the rubber, after a few months exposure.

Dr. Howe himself did not describe the quantity

Dr. Howe himself did not describe the quantity in his patent, and from the time of his discovery in 1827, or 1828, until Daniel Winslow, the foreman of the Staten Island company, made his discovery of so large a proportion of lampblack, the manufacturing of India Rubber proved in most establishments an uncertain, and unsatisfactory business. This simple discovery (of the quantity of lampblack to be used) enabled all who knew the secret, to produce good fabrics; and the goods which were made by mixing 80 parts of lampblack with 100 parts of rubber, continued, until 1846, to be the most perfect fabric in the market; and millions of doitars worth of them have been manufactured and sold; and up to the present time no treatment of India rubber has been discovered, by which it is capable of withstanding exposure to sunshine and weather, for a single year, except this. The article of carriage-top cloth, now so much used, is thus prepared, and has been substantially by the same process for fifteen years. Shoes were always made in this manner until 1846, when vulcanized rubber began to take their place. Dr. Howe himself did not describe the quantity

manner until 1846, when vulcanized rubber began to take their place.

There is one article which has been manufactured extensively and successfuily, in which these compounds were omitted—we refer to the article known as the "Providence shoes." They were made by a process somewhat different from the ordinary treatment, and we will glance at it.

A portion of solvent, just enough to cause the rubber to swell, was poured upon it, and, during the masticating process, just lampblack enough was added to color the rubber. Shoes prepared in this manner have been sold for more than a million of dollars and constituted one style of shoe in the market from 1829 till 1849, when the manufacture ceased altogether.

market from 1839 till 1849, when the manufacture ceased altogether.

There is another mode of treatment, which has resulted partly from the discovery of Dr. Howe, and partly from the sulphur process of Hayward, and about which so much controversy has existed. It is now about ten years since the first successful developement of it came to the public notice, since which, successive improvements have been made, and eight or nine patents granted, for as many different modes of making vulcanized rubber, a majority of which are American discoveries. When this process is fully explored, it will probably supersede most, if not all others, for many articles.

A great deal of controversy has existed about

majority of which are American discoveries. When this process is fully explored, it will probably supersede most, if not all others, for many articles.

A great deal of controversy has existed about the authorship of these various improvements, and we shall describe the goods as they came before the public. The first specimens of rubber, which were so cured as to resist the changing effects of heat and cold, were made by Daniel Hayward, brother of Nathannel, at Easton, Mass. Hayward built an oven before 1837, which served for a great variety of experiments; and, in connection with the use of sulphur, and other materials, he made cloth (samples of which are yet in existence), which would withstend the changes of heat and cold. The partial success which attended these discoveries led the Haywards to other and various experiments, to produce what they called "fire proof rubber." In the winter of 1840 and '41, the fabric which had been made by the mixture of paints and sulphur was successfully treated, and shoes and other articles then made, on a small scale, at Woburn, near Boston; and, during this period, till 1847, the same general process continued in their production and manufacture in the United States; and, although no uniform or certain results were obtained, yet the fabric which had acquired the name of "metallic rubber," from the fact that white lead formed part of the compound, was found to answer many useful purposes. This fabric was made by mixing rubber 25 pounds, sulphur 5 pounds, and white lead 7 paunds, and aubmitting the compound to an atmosphere heated to 270 degrees, Fahrenheit. One of the great objections to this process of treating rubber was its uncertain results. Another was its offensive smell, and a third was its rapid destruction when exposed to the sun and atmosphere, for it was soon discovered that after being exposed to sun and atmosphere for a few months, it cracked and lost all its elasticity. Various efforts were made to obviate these difficulties, but with very little success, unti

chs, as we have ascertained from the London Journal of 1846. It is a well established fact, that rubber mixed with sulphur, and exposed to a heated atmosphere, cannot be vulcanized; hence the use of some other agent. The application of lead, as used by Dr. Howe, and sulphur, as used by Hayas used by Dr. Howe, and sulphur, as used by Hayward, making a triple compound—which was patented in 1844—was the only successful process known in the United States, till the English discovery of what was termed vulcanizing, was introduced. Dr. Thomas, a chemist of New York, discovered, in 1846, that a mixture of rubber and hypo-sulphate of lead, prepared and submitted to steam heat, without the presence of sulphur, would produce a good fabric. The articles made by this combination, were, however, subject to the same difficulty, as the English mixture of a natural earth with the rubber and sulphur. It cannot be vulcanized in a heated atmosphere:

cles made by this combination, were, however, subject to the same difficuity, as the English mixture of a natural earth with the rubber and sulphur. It cannot be vulcanized in a heated atmosphere; but when heated in the presence of large proportions of hydrogen, (contained in steam,) it becomes perfectly vulcanized. This is the only vulcanized fabric ever yet made which is entirely free from offensive smell.

Byin the year 1847, (we believe) another gentleman of New York took out a patent for combining magnesin with rubber and sulphur, submitting his compound to a high degree of heat. The rubber vulcanized by this compound, had all the appearance, and apparently useful properties, of that discovered by Hancock; but it was found that a simple exposure to the atmosphere, even in the shade, made it stiff, and it was found to crack, and this process of manufacturing has gone entirely out of use; it also a curious fact that atmospheric heat would not produce the desired change on the rubber, under this process; hence steam was resorted to.

Next in order, was the discovery of Tyre and Heim, in 1846, and subsequently patented by them; which consisted in mixing a large proportion of the oxyde of zinc, with a minute quantity of sulphur, and exposing it to steam. A tabric was thus produced which withstood the effects of atmospheric changes, and is also useful in producing a light outbred fabric. The greater proportion of fabroes now in the market, known as a Vulcanized India rubber," are made by mixing about four parts, by weight, of whiting, added to one part by weight of other substances, with three parts by weight of rubber, and exposed to steam at about 23) Fahrenbeit. In some fabroes, a small perion of lead, in the form of carbonate, or oxyde, is incorporated; in which case the goods must not be exposed to the continued action of the atmosphere and the weather. The best preparation for constant exposure to the weather, is surple rubber and ismpliance, and not vulcanized hince, the article of carrage coverings, of w

We must now briefly glance at the adaptation of the machinery necessary to the extensive and successful manufacturing of Isdia rubber, and its application to useful purposes. Mackintosh, the Eaglish inventor, used, in 1822, a brush to apply the preparation of rubber to the foundation on which it was required; but soon afterwards he took out another patent, for spreading with a knife or straight edge of metal; and then suspended the goods in a heated room. No other method was practised till Dr. Howe commenced his operations. In 1828, that gentleman found some apparatus necessary to incorporate his paints and coloring matter with the softened rubber, and he first adopted the ordinary paint mills,; but he seen abandoned them for friction rollers, made of netal—one roller revolving faster than the other. Tais has continued, to the present time, to be the most successful and general process used in the United States. By the same kind of rollers (only that each sevolved with equal speed,) the paste was rolled upon the cloth or into sheets; and this also continues to be the general process in this country and England, as well as on the continent. Some other means have prevailed, but only to a limited extent.

In 1832, Wm. Atkinson, (now of New York, but We must now briefly glance at the adaptation of

then of Lowell, Mass.) took out a priest for his mode of preparing and applying rubber to cloth by nicked of preparing and applying rubber to cloth by nicked and prepared the same general man adapted another preparatory to the subsequent process of softening and spreading it.

About the year 1854, agentleman of New Brussey, and the year 1854, agentleman of New Brussey, and the state of the discovery of Atkinson. In 1836 the Razbury India Rubber Company abandoned their process of spreading cloth, (in some respects the same shate patented by Machinson, in 1836 the Razbury India Rubber Company abandoned their process of spreading cloth, (in some respects the same as that patented by Machinson, in 1836 the Razbury India Rubber Company abandoned their process of spreading cloth, (in some respects the same as that patented by Machinson, in 1836 the Razbury India Andrews of the discovery of the machinery. Although a patent was issued for rhis process in the name of Mr. Chaffee, and been done before by Howe & Atkinson—apart, by each—and the owners of the patent, learning that fact, allowed the invention togo into ruli and unrestricted use.

The pressing of the rubber is moulds, for various purposes, was done in England and the United Machinery and the trubber in to picces by means similar to chopying minord-ment; then to prace it im moulds. A patent was obtained for this in the United States about that time. Two modes of applying rubber to cloth continue to be used. When a very thin laminae or coverning is required, the rubber, either companied or pure, is softened to the consistence or jelly, and the process of the patented when a very thin laminae or coverning is required, the rubber, either companied or pure, is softened to the consistence or jelly, and the process of the patented when a very thin laminae or coverning the coverning the coverning that the coverning the coverning that the patented when the coverning the coverning that the coverning th

consumption of steam packing alone, requires about 3,000 pounds daily.

Within three years the value of the raw material from Brazil, has advanced over 100 per cent, and this advance will doubtless be permanent, if not farther increased. Most of the raw material is produced in Para, one of the northern States of Brazil, the whole population of which will not reach 250,000 inhabitants. It is frequently necessary for the natives to stand up to their waists in water, to gather the milky juice from the tree. Recent efforts have been made to introduce slave labor, to increase the production, but with very little success; since it has been found that none but native Indians can long endure the exposure.

To attempt a full history of the application of India rubber in the various arts, would occupy to much space. We shall therefore content ourselves by referring to some of the most important.

dia rubber in the various arts, would occupy too much space. We shall therefore content ourselves by referring to some of the most important.

In 1825, the rudely formed Brazilian shoes were first imported in small quantities, which increased until the aggregate annual importation reached over one million dollars. This importation ultimately declined to a few thousand dollars, in consequence of the improvement of the manufacture in the United States.

The late Stephen C. Smith was among the first who took measures to improve the quantity of tub-

declined to a few thousand dollars, in consequence of the improvement of the manufacture in the United States.

The late Stephen C. Smith was among the first who took measures to improve the quanty of rubber shoes, as made by the Braz hans. He was then living in Providence, R. I., and he sent to Brazil torms on which to prepare the substance into thin sheets, to enable him to work it in this country in any form he pleased. He succeeded. Another mode was to line and shape the rude Brazhlan shoe, upon neat and proper lasts, and bind the edges with fur. This was done early in 1829 or 30. A few years afterwards, Mr. Smith and others obtained the rubber in these thin sheets, in great quantities from Brazil, and formed it into shoes. For many years this was the best article in use. As early as 1823, a gentleman of this city made shoes waterproof by interposing between the leather a liming of prepared rubber. In SM, the Roxbury India Rubber Company made shoes of moleskin cotton cloth, with rubber between, and leather soles attached, with a binding of the same maternal. Many hundred thousand pairs were made and sold of this kind, but they were not clastic. In 1832-3, Mr. Atkinson invented a shoe formed of rubber, which had been re-manufactured in this country, presenting the outward appearance of leather. His process was then enurely new, and, with such improvements as have been made in the mode of manufacturing rubber since, it continues to the present time, and the article of rubber shoes, now so universally popular, is constructed on the same plan as that patented by Atkinson, in 1834; but the manner of reating the rubber is the result of a resent discovery which has not been made public, and while the export to Europe can be made in such large quantities as at present, it is not thought proper to to reveal the secret. It consists partly in imparting a most brilliant gloss, resembling patent leather.

This has been now three years in general use, and is destined to extend the application and consumption of India rub

machinery, the daily consumption in the United States is about 2,000 pounds. This, combined with nearly double its weight of cheap earthy mater and suitable duck, produces, when properly made, a superior band. This can be successfully vulcanized only by the aid of steam. So likewise of railroad car springs, fenders, thick packing for steam machinery, &c. The daily consumption of rubber in the United States for car springs, is about 1,000 pounds, and fast increasing. The invention of springs of rubber for vehicles, was originally made by Mr. Lacy, and patented in England about twenty years ago. His plan was interposing discs of rubber between plates of metal, and the resistance of the rubber when compressed, gave the spring. How two subsequent patents can be extant for the same invention, is past our comprehension, unless the material justifies the presumption of a new invention. The spring as now used in this country, is made by mixing equal quantities, by weight of rubber and whiting, and adding five per cent of sulphur. Sometimes less whiting is used when the equal quantity is made up of lead or zinc to take the place of so much whiting. These materials are all ground together in the masticating machine till they are reduced to a uniform pasty mass; they are then rolled in salendering machines size of disc is obtained, when it is placed in strong iron moulds, and submitted for five or six hours to steam at about 250 Fahrenheit. This is substantially according to the description of compounding, which is given in the English patent granted to Thomas Hancock in 1843, but the proportions are not given by Hancock. The quantity of sulphur for the best effect, is about five per cent by weight to the quantity of rubber, but less than this will accomplish the vulcanizing.

We have thus glanced rapidly over the field, and traced some of the principal points that have marked the progress of what now constitutes so vast and important a department of art and manufacture. We perceive that it has been a progressing business

the mine of the tree to be transported in barrols and applied as wanted in the manufacture, would yet of many treated by a been all registers of the real process of the manufacture, would yet been all registers of the real process of the real pro

meneed for the appellant, and continued for the appellee.

Suprame Court of the United States, Jan. 10.—

T. N. Van Dyke, Esq., of Tennessee, was admitted an attorney and counsellor of this court. No. 196. Jecker, Torre & Co., appellants, vs. J. B. Montgomery. No. 197. J. B. Montgomery, appellant, vs. Jecker, Torre & Co. These causes were submitted to the consideration of the court on the records and printed arguments. by Mr. Coxe for Jecker, Torre & Co., and by Mesers Key and Johnson for Montgomery. No. 56. R. C. Stockton, appellant. vs. Januar C. Ford. The argument of the sause was concluded by Mr. Walker for the appellant. No. 57. The United States, pisintiffs in error, vs. Jahle Brooks, et al. The argument of this cause was commenced by Mr. Attorney General Crittenden for the plaintiffs in error.

Court of Appeals, Aleany, Jan. 7.—The Chief Judge

Count or Arrans, Athany, Jan. 7.—The Chief Judge announced that hereafter, commencing to day, the court would hold two sessions a day—taking a recess from 2 to 3½ P. M. This being motion day, the following motions were decided:—Blydenburgh, appellant, against Cotheal, respondent. Motion to dismiss appeal denied with costs. Van Wyck and wite, respondents, against Seymour and wife, appellants: Maison, appellant, against the same respondents. Motion to vacate an order entered, dismissing the appeal of Maison, granted on payment of costs. The Farmers Loan and Trust Company and others, appellants, against Carroll and others, respondents. Motion on behalf of Daniel J. Carroll to modify the decree entered in this cause on the 19th October last, as to him; granted in part. Corwin and Corwin, respondents, against Corwin, appellant, Motion to vacate the order entered dismissing the appeal; granted on payment of costs of procuring the order. Baymond and others, respondents. Notion to dismiss appeal granted with costs. Raymond and others, appellants against Brewer and others, respondents. Motion to dismiss appeal granted with costs. Ward, survivor, &c., appellant, against Syme and others, respondents. Motion to dismiss appeal granted with costs. Ward, survivor, &c., appellant, against Syme and others, respondents. Motion by appellant that the rowtifing liked in the court below be returned to this court, that the judgment of affirmance heretofora rendered, be vacated, and that the cause be re argued &c., denied with costs. The opening argument in No. I was recumed and continued until the hour of recess, 2 P. M., and not concluded.

Court or Arrants, Albany, Jan. 10.—This being motion day, several motions were made, and the following decided:—Thompson, appellant agt. Bowne and another, respondents; Bowne, appellant, agt. Thompson and another respondents. Motion to dismiss appeals in these causes granted by detault, Jacks and others, appellant, agt. Lynes and others, respondents (No. 10). Motion by appellants to vacate the de Count or Arreals, Athany, Jan. 7.—The Chief Judge

Motion to vasate the default entered in this cause on the 4th inst granted—and that the cause stand as No. 48% on the calendar.

Phosphate of Lime—It seems singular that on the property of the New Jersey Exploring and Mining Company, about twelve miles from Dover, in this State—who it is well known possess one of the richest mines of red oxide of zinc in the world—there should also have recently been discovered the only mine, it is supposed, of phosphate of lime that has anywhere been found in a mass. It occurs in a vein of reck, one side of which is gneiss, the other, serpentine. The vein of phosphate of lime is about six feet wide at the surface, broadening as it descends. It has been sacertained to extend two miles in length. A specimen has been analyzed by Dr. Antisell, of New York, who states it to contain ninety-three per cent of pure phosphate of lime. It is, in fact, the same material as calcined bones, dissolving entirely in muristic acid. We have seen a specimen, but not the vein itself, and pressume there is no doubt of its great value. It is an admirable manure, an article so widely needed through the State. In the vicinity, it must be largely useful, and its benefits can only be limited by the obstacles to cheap and easy transportation. These are the same as now possessed by the Zinc Company, namely, a cartage of three miles, to Hoptacong lake, down the lake to the Motris Canal, on which it may of course be vasily transported to Newark and New York.—Newark Advertiser.

Political Intelligence.

NEW JERSEY LEGISLATURE.—The legislature of New Jersey, meets at Trenton, to day. There is a tie in the Senate, and a democratic majority of two in the House. A U. S. Senator is to be elected, who will be a democratic Com. Stockton, ex.Gov. Proom. and Gen. B. V. R. Wright, are the most promisent cantilates.

INTERESTING CALIFORNIA MISCELLANY.

Recens in the Mountains.

[From the Ban Francisco Journal of Commerce.]

A company of damming miners upon one of the gold rivers in the interior, recently played upon some greenhorns quite a rich practical joke, which, however, proved to be rather a barren and worthless affair to the latter, although productive of considerable or to the former. The diggers, after a fruitless search after gold on the inside of their dam, found a soft and porous rock, which proved as destitute of gold as the rest of their claim. Determined, however, to realize something to pay them for their trouble, they immediately aprinkled a considerable amount of the precious metal all over the rock, as well as in its interstices and crevices, and then proclaimed abroad that they had found a rich vein of golden rock in their dam, inviting every ene to call and see it. From far and mear the diggers came to see the wonderful discovery, whilst claims in the surrounding dams rose in price in proportion to the excitement occasioned by the golden rock. Many and large were the offers made to the various claimants in the golden rock dam. But it was no go—the party concerned knew well what they were about, and would not sell one claim who they were about, and would not sell one claim without selling all. Meanwhile, so intense had become the excitement, that no work was done for several days in the whole neighborhood, and the owners of this immensely rich claim, seeing the position of affairs, determined to "strike while the iron was hot;" and accordingly, up went the whole of the claims in the "Golden Rock Dam," to be sold at auction, to the highest bidders, for cash, at sundown the next day. The excitement still raged, and, at the time appointed, the concourse of digers was tremendous upon the scene of action. The sale commenced, and up, up went the whole was knocked off to a party of lucky hombres, who promptly paid the money, a sum far exceeding all the costs and outlays upon the day of the moley for the median production of the moley with the pro

A place called Drytown, or Placer seco-diggings, discovered by Mexicans, and already settled by them to the number of 400 or 500, was surprised, a few days since, by a party of armed Americans, numbering 200, notifying them that if they did not leave said diggings in the space of eight days, that they would eject them by force of arms. This, of course, alarmed the peaceable Mexicans, but not sufficiently to make them evacuate the place. A day before the expiration of the time appointed by the Americans that they should evacuate, a squad of them appeared at the diggings, and told the Mexicans that, if they did not all disappear at the time appointed, that they would shoot them down indiscriminately, men, women, and children, and burn down their houses, and take possession of their effects, which purpose they would have carried out, had it not been for the timely interference of Judge Smith, the county judge and myself. We arrived at the spot about two hours before the time appointed for their bloody design, and by force of argument persuaded them to desist from their unlawful and outrageous undertaking, but we could only get from them a respite of four or five days, when they said they would carry out their design as originally intended, excepting only families and traders. They have already burned several Mexican shanties, scattered the poor Mexicans all over the country, taken possession of dirt that the majority of them had been throwing up for the last three months, and depopulated a place, or town, which promised to be one of the largest settlements in the mines. The leaders are James B. Steadman, one Washington, and John O'Brien, all from Oregon Bar, on Mequelume river, where they had been holding meetings for the last month for the airoresaid purpose. The fact is it is, getting late for river digging, and there is no doubt that their only object is to rob, which fact is confirmed by their having already apportioned out to each man concersed in this revolutionary act, the dirthrown up by the Mexicans. Judg

The County Jail.

[From the Alta California, Nov. 27]

This building, now erecting on Broadway, promises to be a very substantial structure. Its location is in Broadway, between Pacific and Dupont streets, with a front of sixty feet on Broadway, and 137 feet on an alley-way twenty teet wide. When completed it will be three stories in height, and finished in the Norman style of architecture—the cornices and friezes of freestone, imported from Sydney. The main portion of the building will be of brick. The cells are in the first and second stories, and number about sixty. Those now completed are ten feet by six, the walls of brick, faced with China granite. We learn from the architect that it is the intention to have the cells in the second story somewhat larger. Each cell will be supplied with water from a cistern of large capacity, and waste pipes will connect with the sewers. The jailor's rooms and the offices will be in the third story. The basement, built upon rock foundation, is nearly completed, and in a few months the mein portial of the building will be ready for occupation.

From the Alta California, Dec. 1.]

The Sea Gull steamer, Captain Cressy, in her last trip entered the bay, being the first sight vessel that ever crossed the bar. The capta reports the least water he found at half tide tree "quarter less five," or twenty-eight and a half etc. depth enough for the largest merchantmen to bably, that will ever sail the Pacific. He was perfectly delighted with the bay and the couns around it. It is destined to be one of the most elightful and destrable spots on the Pacific coas. The entrance to the bay is plain and easy, the chorage good, nor winds nor tides will trouble to resting ship when once within. Its agricultual advantages are said to be very great. There is a wide extended succession of arable acres, retching from the borders of the clear waters of the foot of the mountains and hills and in bertiful quiet valleys between them, from whose the breast the agriculturist may gather substance, health, and luxury, if he will. From the sture of the climate this is health of this conty will materially change with the altering circustances of its surface; and that

the dry season will cease to be so dry as it is at present. Whether this change occur or not, the Humboldt country is pretty certain to flourish. There they have not unfrequent showers, and nature with her smile unending, woos the farmer to draw upon her exchequer for his full share of the abundant wealth therein. Then, also, it is within the region of the placers. Good roads have been opened from the bay, leading from Humboldt, Eureka and Union Town, to the deposits on the Trinity and adjacent streams, and it is thought that the business done on their account this year has been only trifling, compared with what will be done hereater. The country is full of timber also, and can furnish lumber to the whole country for years to come, and not miss it. The business of bringing piles from thence for the improvements in this place is already one of no small impertance; and, in fine, numerous circumstances point at out as a section of great interest, wealth and prosperity yet to be.

Official Courtesy.

[From the Ban Francisco Herald, Dec. 1.]

His Honor, Mayor Geary, together with a few of his friends, were received yesterday morning, at the instance of the French Consul General, on board the French national corvette, the Serieuse, and entertained by the very gentlemanly commander at breakfast.

The Marine Arrivals.

[Prom the Pacific News. Nov. 20:]

The number of vessels entering our harbor is really a matter of wonder. Within the forty-eight hours ending on Sunday night, nearly sixty sail entered the Golden Gate. The history of the world presents no comparison. The arrivals yesterday were between twenty and thirty sail.

The message of Gov. Wright was delivered to the Legislature of Indians, en the 30th ult. The following are his views upon the Compromise measures passed at the last session of Congress:—

It is not a practical question whether these measures of peace, recently framed by great and good men, in the same apirit which actuated our fathers in days gone by, are in every respect such as meet our unqualitied approval. It has been well said that the lives of the best of us are spent in choosing between evils; and it is often a bounden duty to endure a temporary and incidental evil for a parmanent and inherent good. A domestic institution, forced upon our foretaches is a colonial days, rather than voluntarity adopted our fouthern brethron. Any sudden abandonment of that policy is impossible. Even its gradual relinquishment is beest with difficulty and embarrassment. The patricts of the revolution—convened to frame a government is beest with difficulty and embarrassment. The patricts of the revolution—convened to frame a government and her social relations. Without this recognition, absolute and unconditional, the threen aig government, and her social relations. Without this recognition, absolute and unconditional, the threen eriginal States would never have concurred in the federal compact Without that element, the Union cannot be preserved now.

Indiana, a central flate, has always maintained a high conservative position, especially on that exciting question of the day, which has threatened, more seriously than any other. The integrity of our confederacy of States. Bhe is, indeed, convinced that she has wieely selected her own domestic policy. She is astisfed with the degree of prosperity, under that free policy, she has attained. Our state was the nineteenth admitted into the Union. In wealth in agriculture, and commercial importance which were admitted, four, at most are in our advance; and not one of those since admitted, has come within sight of us. Ministanting her position above the well of the prosperity of the c

that spirit in which the articles of our confederacy were first conceived. As representatives, as ditisens of Indiana, as citizens of the United States, we have difficult, delicate, important duties to perform. Foremost among these is the obligation to oppose, by every lawful means, that spirit of factious fanaticism, alike suicidal wherever it has birth, which insiduously assumes the garb, in one section, of philanthropy, in another, of State rights. By speech, by action, by concession, by forbearance, by compromise, by the influence of moral suasion and the strong power of kindness—by each and all of these means, let us seek to allay the spirit of lawless misrule, that spirit which instale each man's opinion the arbiter of constutional rights, or which coolly estimates the value of this Union, and looks with atendy eye on a separation of these States, the certain herald of bloodshed and a thousand horrors—a separation to be surely and speedly followed by war in its most odous form—servile, perhaps, as well as civil—war among those of the same race, the same name, the same blood—war that shill bring together, in hortile array, neighbor egainst neighbor, brother against brother, son against sire.

To avert calamities so direful, Indiana with cast even to the last, the entire weight of her induence. She will be just to each and every member of the confederacy—just to the constitution—side by the law—and, above all, she will shids by the law—and, above all, she will shids by the compromises made by our fathers—the compromises made by the great and good men of this day. She will hope, she will pray, that the sense kind and overrolling Providence which watched over our fathers at the adoption of the constitution, and has sustained in every crisis, and enable us to transmit to posterity that secred instrument, a guide and a blessing in the future, as it has every hour of darkness since, will direct their sone, also, in the paths of wisdom and of peace, and enable us to transmit to posterity that secred instrument, a

self on the basis of the constitution and takes he place in the ranks of American desting.

Enterrhise of a Whales, —Capt W. T. Walker, late of ship Envoy, of this port, retured home yeaterday from Bas Francisco, where he led his ship, after disposing of her cargo at that port. The Envoy was formerly employed in the whale-shery from Providence, and had been well used up it the service, when in 1847, she was purchased at a quaparatively triding cost, by a merchant of this city, with the purpose of refitting her for the same businer. This design was, however, abandoned, owing to be great size and the difficulty of obtaining a suitably beroon to take command of her, and she was at lengt stripped, and sold to Mr. Wm. O. Brownell, a dealer noild junk, for the sum of \$325, to be braken up. He new purchaser, however, conceived the idea of refitring her for sea and having done so, he fortunately okaged Capt. Walker to command her, the captain becoming the purchaser of one quarter of the ship, and the Envoy accordingly sailed from this pert July \$1.1848. On a whaling voyage, and proceeded to se island of Whytootacke, where captain W had of a previous voyage stored 1,000 barrels of oil, which he had purchased at a merely nominal price, from a recked vessel. Having taken on board the 1,000 arrels of oil, Capt. W. next proceeded to Manilla and shipped the oil thenes to London, where it manoid, netting to its owner the sum of \$9,000. From Maillia, the Envoy proceeded to cruise for whales in a world to Manillia in the fail of 1842, and thene again shipped to London 1,800 barrels of oil and 40,000 lbs. of whalebone, which netted £7,750, or \$37,500.

The Envoy again sailed for the Pacific, and during the last season took 2,500 barrels of oil and 30,000 lbs. of whalebone. The Envoy then proceeded to San Francisco, where she arrived on the 6th of November; and Captain W, there sold 25 000 gallons of oil at \$1 per gallon, and the remainder of the cargo (\$6,000 lbs. of whalebone. The Envoy thene proceeded to San Francisco, where s

season.
Sales at San Francisco.
Value of whalebone shipped home.
Value of ship.

Total \$138,450
The Envoy was considered unseaworthy by the insurance companies, at the time of her salling from this port, and they accordingly declined taking any risk upon her. The sanguine and fortunate projector of the enterprise, Mr. Wm. O. Brownell, accordingly assumed the cutire risk including the one quarter owned by Capt. W.—N. B. Mercury, Jen. 3.